

# Central<sup>TM</sup> Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

CMPD200  
CMPD300  
CMPD400

FORWARD REFERENCE DIODE  
(STABISTOR)  
JEDEC DO-35 CASE

## DESCRIPTION

The CENTRAL SEMICONDUCTOR CMPD200 series types are multi-chip silicon diodes mounted in a JEDEC DO-35 case. These devices are designed for applications requiring controlled forward voltage characteristics such as voltage regulation, sensing, and comparing. This series is a direct replacement for the MPD200, MPD300, and MPD400 respectively.

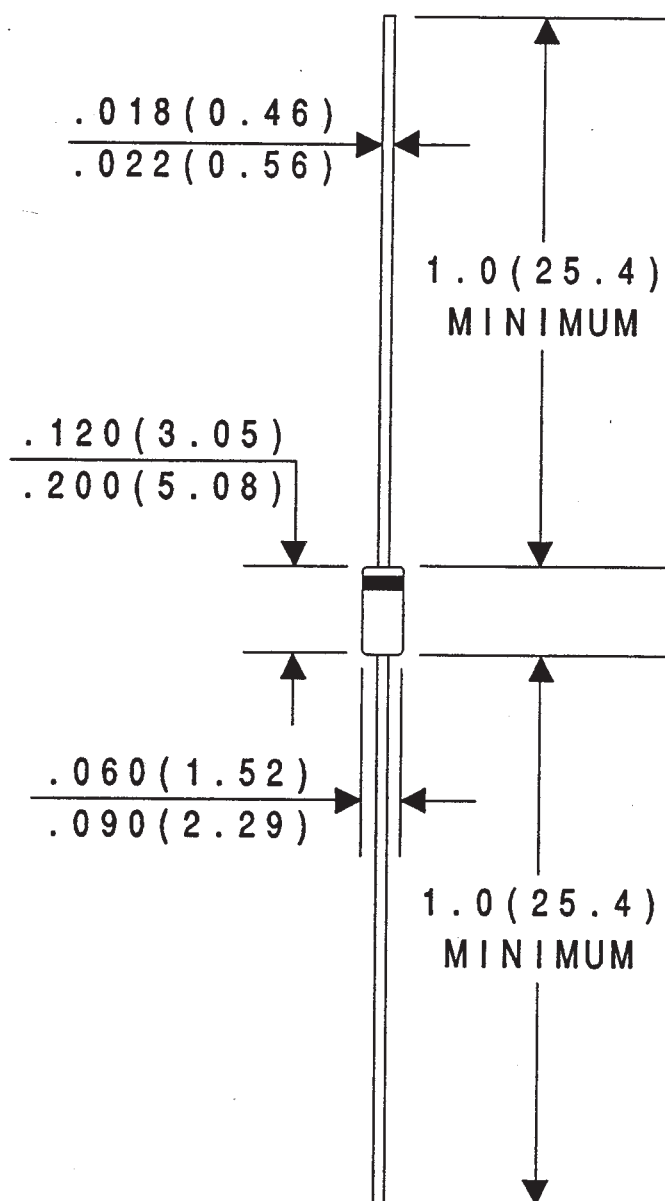
## MAXIMUM RATINGS (T<sub>A</sub>=25°C)

	SYMBOL		UNITS
Power Dissipation	P <sub>D</sub>	400	mW
Operating and Storage Junction Temperature	T <sub>J</sub> , T <sub>STG</sub>	-65 to + 150	°C

## ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	CMPD200		CMPD300		CMPD400		UNITS
		MIN	MAX	MIN	MAX	MIN	MAX	
I <sub>R</sub>	V <sub>R</sub> =30V		300		300		300	nA
BV <sub>R</sub>	I <sub>R</sub> =5.0μA	30		60		90		V
V <sub>F</sub>	I <sub>F</sub> =10μA	0.90	1.00	1.40	1.54	1.82	2.01	V
V <sub>F</sub>	I <sub>F</sub> =100μA	1.05	1.16	1.62	1.78	2.14	2.36	V
V <sub>F</sub>	I <sub>F</sub> =1.0mA	1.22	1.34	1.84	2.03	2.47	2.71	V
V <sub>F</sub>	I <sub>F</sub> =10mA	1.39	1.54	2.10	2.33	2.80	3.07	V
V <sub>F</sub>	I <sub>F</sub> =100mA	1.60	1.76	2.40	2.65	3.16	3.49	V

# JEDEC DO-35 CASE - MECHANICAL OUTLINE



All Dimensions in Inches (mm).